meters, have thought the 11th of *June* 1748 was hotter: But I imagine the Reaſon to be, that the Heat this Year came on gradually from Day to Day; whereas in the Year 1748 it was much more ſudden; the Thermometer then riſing 22 Degrees more in one Day than the preceding; which, conſequently, would make the Difference between one Day and another appear the more extraordinary. But, by my Obſervations on the 11th of *June* 1748, *Hauksbee's* Thermometer ſtood at $14\frac{1}{2}$; full 6 Degrees cooler than on the 11th of this preſent *July*. I am,

SIR,

Norwich, July 23.
1750.

Your moſt humble Servant,

William Arderon.

P. S. Several Horſes have dropped down dead under their Maſters, overcome by this violent Heat.

X. *A total Eclipſe of the* Moon, *obſerved* Dec. 2, 1750. *in the Morning in the* Strand, London, *about* 5″ *of Time Weſt of* St. Paul's, *and* 27″ *Weſt of the* Royal Obſervatory *at* Greenwich; *by Dr.* Bevis *and Mr.* James Short *F. R. S.*

Read Dec. 13.
1750.

	h	′	″
A SENSIBLE *Penumbra* (*Dec.* 1.) at	16	32	0
The Eclipſe judged to begin at .		36	50

	h	'	"
Grimaldi covered		40	20
Shadow touches *Mare Humorum*		45	26
at the Middle of *Kepler*		48	40
at the Middle of *Ariſtarchus*		50	7
touches *Copernicus*		55	23
Copernicus half-cover'd		56	56
———— quite cover'd		58	5
Timocharis half-cover'd		59	0
Shadow touches *Tycho*		59	20
at the Middle of *Tycho*	17	0	0
covers *Tycho*		1	3
at the Middle of *Menelaus*		14	42
touches *Goclenius*		24	29
covers *Goclenius*		25	17
at the Middle of *Proclus*		27	20
touches *Mare Criſium*		28	44
at the Middle of *Mare Criſium*		31	15
covers *Mare Criſium*		33	30
Total Immerſion at		36	5
The Moon begins to emerge	19	14	33
Grimaldi begins to emerge		16	4
quite uncover'd		18	10

The Moon was now got ſo low, and Day-light ſo far advanced, that no more Phaſes could be obſerved with any Degree of Certainty.

Theſe Obſervations were made with a reflecting Teleſcope, that magnified 40 times, and a refracting Teleſcope, which magnified 12 times; and the Times were the ſame thro' theſe two Teleſcopes; for the Air was exceeding clear, and the Shadow well defined, the *Penumbra* being ſcarce ſenſible.

Here

Here follows a Computation, made from Dr. *Halley's* Tables, by Mr. *John Catlin*, of *Guy's* Hoſpital; and ſent to Mr. *Short* the Day before the Eclipſe.

Dec. 1. in the Morning 1750.	h	'	"
Beginning of the Moon's Eclipſe .	16	44	31
Immerſion at . . .	17	42	45
Emerſion at . . .	19	20	37
End at	20	18	51

From hence it appears, that the Eclipſe began about 8 Minutes ſooner than the Computation from Dr. *Halley's* Tables gave it; but the Computation which Mr. *Brent* made and publiſhed ſome time before the Eclipſe happen'd, was within a Minute of the Time obſerved; and this Exactneſs he imputes to his leaving out three of the ſeven Equations of the Moon, publiſhed by Sir *Iſaac Newton* in his Theory of the Moon.

XI.